

OPTICAL TO MICROWAVE CONVERTER USING
DIRECT MODULATION PHASE SHIFT KEYING

ABSTRACT OF THE DISCLOSURE

A point-to-point microwave radio link that operates in a Frequency Division

- 5 Duplex (FDD) mode using direct digital modulation with a Continuous Phase Shift Keyed (PSK) scheme. The transmit signal is generated by a circuit that uses a Voltage-Control Oscillator (VCO) operating in a microwave radio band to obtain the modulated signal. The VCO output is fed to a phase modulator to obtain the modulated signal.
- 10 The output of the VCO is then frequency multiplied by the predetermined factor to produce the modulated microwave output signal at the desired band.